



## Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact [support@jstor.org](mailto:support@jstor.org).

# **PLAGUE-PREVENTION WORK.**

## **CALIFORNIA.**

The following report of plague-prevention work in California for the week ended March 27, 1915, has been received from Passed Asst. Surg. Hurley, of the United States Public Health Service, in temporary charge of the work:

*San Francisco, Cal.*

RAT PROOFING.		RAT PROOFING—continued.	
New buildings:		Old buildings—Continued.	
Inspections of work under construction	291	New garbage cans stamped approved.	608
Basements concreted (41,109 square feet).....	80	Nuisances abated.....	407
Floors concreted (36,325 square feet)...	61	OPERATIONS ON THE WATER FRONT.	
Yards, passageways, etc. (29,785 square feet).....	105	Vessels inspected for rat guards.....	28
Total area of concrete laid (square feet). 107,219		Reinspections made on vessels.....	36
Class A, B, and C (fireproof) buildings:		New rat guards procured.....	25
Inspections made.....	265	Defective rat guards repaired.....	13
Roof and basement ventilators, etc., screened.....	2,740	Rats trapped on wharves and water front.	24
Wire screening used (square feet).....	19,160	Rats trapped on vessels.....	13
Openings around pipes, etc., closed with cement.....	10,591	Traps set on wharves and water front.....	171
Sidewalk lens lights replaced.....	4,895	Traps set on vessels.....	42
Old buildings:		Vessels trapped on.....	11
Inspections made.....	664	Poisons placed on water front (pieces).....	3,600
Wooden floors removed.....	66	Poisons placed within Panama-Pacific International Exposition grounds (pieces)...	7,200
Yards and passageways, planking removed.....	22	Bait used on water front and vessels, bacon (pounds).....	6
Cubic feet new foundations walls installed.....	12,027	Amount of bread used in poisoning water front (loaves).....	12
Concrete floors installed (56,331 square feet).....	67	Pounds of poison used on water front.....	6
Basements concreted (24,819 square feet).....	29	RATS COLLECTED AND EXAMINED FOR PLAGUE.	
Yards and passageways, etc., concreted (37,030 square feet).....	55	Collected.....	253
Total area concrete laid (square feet)...	118,180	Examined.....	192
Floors rat-proofed with wire cloth (4,978 square feet).....	5	Found infected.....	0
Buildings razed.....	13	RATS IDENTIFIED.	
		Mus norvegicus.....	135
		Mus rattus.....	32
		Mus alexandrinus.....	44
		Mus musculus.....	42

### *Squirrels collected and examined for plague.*

Contra Costa County.....	99
San Benito County.....	32
Santa Cruz County.....	15
Santa Clara County.....	9
Stanislaus County.....	5
Total.....	160
Found infected.....	0

### *Other animals collected and examined for plague.*

Stanislaus County.....	1 rabbit.
Found infected.....	0

### *Ranches inspected and hunted over.*

Contra Costa County.....	23
San Benito County.....	6
Santa Cruz County.....	4
Santa Clara County.....	6
Stanislaus County.....	3

*Record of plague infection.*

Places in California.	Date of last case of human plague.	Date of last case of rat plague.	Date of last case of squirrel plague.	Total number rodents found infected since May, 1907.
<b>Cities:</b>				
San Francisco.....	Jan. 30, 1908	Oct. 23, 1908	( <sup>1</sup> )	398 rats.
Oakland.....	Aug. 9, 1911	Dec. 1, 1908	( <sup>1</sup> )	126 rats.
Berkeley.....	Aug. 28, 1907	( <sup>1</sup> )	( <sup>1</sup> )	None.
Los Angeles.....	Aug. 11, 1908	( <sup>1</sup> )	Aug. 21, 1908	1 squirrel.
<b>Counties:</b>				
Alameda (exclusive of Oakland and Berkeley).....	Sept. 24, 1909	<sup>2</sup> Oct. 17, 1909	Aug. 7, 1914	286 squirrels, 1 wood rat.
Contra Costa.....	May 17, 1914	( <sup>1</sup> )	Mar. 4, 1915	1,567 squirrels.
Fresno.....	( <sup>1</sup> )	( <sup>1</sup> )	Oct. 27, 1911	1 squirrel.
Merced.....	( <sup>1</sup> )	( <sup>1</sup> )	July 12, 1911	5 squirrels.
Monterey.....	( <sup>1</sup> )	( <sup>1</sup> )	Apr. 10, 1914	6 squirrels.
San Benito.....	June 4, 1913	( <sup>1</sup> )	Sept. 26, 1914	36 squirrels.
San Joaquin.....	Sept. 18, 1911	( <sup>1</sup> )	Aug. 26, 1911	18 squirrels.
San Luis Obispo.....	( <sup>1</sup> )	( <sup>1</sup> )	Jan. 29, 1910	1 squirrel.
Santa Clara.....	Aug. 31, 1910	( <sup>1</sup> )	July 23, 1913	25 squirrels.
Santa Cruz.....	( <sup>1</sup> )	( <sup>1</sup> )	May 17, 1910	3 squirrels.
Stanislaus.....	( <sup>1</sup> )	( <sup>1</sup> )	June 2, 1911	13 squirrels.

<sup>1</sup> None.<sup>2</sup> Wood rat.

Operations are being carried on under Federal supervision on the Tormey estate, Contra Costa County, labor and material being furnished by the owners, as follows:

Number of acres covered.....	347
Number of holes treated.....	6,192

The work is being carried on in the following-named counties: Alameda, Contra Costa, San Francisco, Merced, San Joaquin, Santa Cruz, Stanislaus, San Benito, Santa Clara, and San Mateo.

**LOUISIANA—NEW ORLEANS—PLAGUE-ERADICATION.**

The following report of plague-eradication work at New Orleans for the week ended March 27, 1915, has been received from Surg. Creel, of the United States Public Health Service, in temporary charge of the work:

OUTGOING QUARANTINE.		DESTINATION AND NUMBER OF RAILROAD CARS INSPECTED FOR WEEK ENDED MAR. 27, 1915.	
Vessels fumigated with sulphur.....	29	Alabama.....	131
Vessels fumigated with carbon monoxide..	6	Arizona.....	3
Vessels fumigated with hydrocyanic gas... 1		Arkansas.....	10
Pounds of sulphur used..... 6,536		California.....	14
Coke consumed in carbon monoxide fumigation (pounds)..... 11,300		Carolina, North.....	6
Pounds of potassium cyanide used in hydrocyanic gas fumigation..... 102½		Carolina, South.....	4
Pounds of sodium carbonate used in hydrocyanic gas fumigation..... 120		Colorado.....	4
Pounds of sulphuric acid used in hydrocyanic gas fumigation..... 104		Delaware.....	2
Clean bills of health issued..... 26		Florida.....	19
Foul bills of health issued..... 10		Georgia.....	50
		Illinois.....	88
		Indiana.....	15
		Iowa.....	6
		Kansas.....	2
		Kentucky.....	17
		Louisiana.....	932
		Massachusetts.....	5
		Michigan.....	30
		Minnesota.....	17
		Mississippi.....	346
OVERLAND FREIGHT INSPECTION.			
Cars inspected; found in good order; permitted to load..... 1,821			
Cars ordered repaired before loading..... 1,280			
Total cars inspected..... 3,101			

## DESTINATION AND NUMBER OF RAILROAD CARS INSPECTED FOR WEEK ENDED MAR. 27, 1915—con.

Missouri.....	45
Nebraska.....	3
New Jersey.....	2
New York.....	36
Ohio.....	72
Oklahoma.....	5
Pennsylvania.....	15
Tennessee.....	69
Texas.....	176
Virginia.....	2
Washington.....	4
Wisconsin.....	12
Canada.....	8
Mexico.....	1

## FIELD OPERATIONS.

Rats trapped.....	6,830
Number of premises inspected.....	10,325
Notices served.....	678

## BUILDINGS RAT PROOFED.

By elevation.....	163
By marginal concrete wall.....	119
By concrete floor and wall.....	292
By minor repairs.....	384
Square yards of concrete laid.....	34,115
Total buildings rat proofed.....	958
Total buildings rat proofed to date.....	27,568
Number of abatements.....	1,654
Number of abatements to date.....	13,002

## LABORATORY OPERATIONS.

Rodents examined.....	3,373
Mus norvegicus.....	1,935
Mus rattus.....	161
Mus alexandrinus.....	172
Mus musculus.....	3,877
Wood rats.....	666
Putrid.....	65
Muskrats.....	132
Total rodents received at laboratory.....	6,943
Number of suspicious rats.....	6
Plague rats confirmed.....	0
Suspicious human cases examined.....	1
Number of human plague cases.....	0
Last case of human plague, October 4, 1914.....	
Last case of rodent plague, March 9, 1915.....	
Total number of rodents captured to March 27.....	307,203
Total number of rodents examined to March 27.....	230,009

## Total cases of rodent plague to March 27, by species:

Mus musculus.....	4
Mus rattus.....	16
Mus norvegicus.....	207
Mus alexandrinus.....	9

Total rodent cases to March 27, 1915. 236

## WASHINGTON—SEATTLE—PLAGUE ERADICATION.

The following reports of plague-eradication work at Seattle were received from Surg. Lloyd, of the United States Public Health Service, in charge of the work:

WEEK ENDED MAR. 6, 1915.

## RAT PROOFING.

New buildings inspected.....	36
Basements concreted, new buildings, 16,280 square feet.....	8
Floors concreted, new buildings, 86,750 square feet.....	32
Yards, etc., concreted, new buildings, 3,850 square feet.....	5
Sidewalks concreted (square feet).....	20,450
Total concrete laid, new structures (square feet).....	127,350
New buildings elevated.....	7
Premises rat proofed, concrete, new buildings.....	30
Buildings razed.....	3

## WATER FRONT.

Vessels inspected and histories recorded.....	9
Vessels fumigated.....	3
Sulphur used, pounds.....	3,800
New rat guards installed.....	22
Defective rat guards repaired.....	8
Fumigation certificates issued.....	3

## WATER FRONT—continued.

Canal Zone certificates issued.....	3
Port sanitary statements issued.....	34

## LABORATORY AND RODENT OPERATIONS.

Dead rats received.....	21
Rodents trapped and killed.....	312
Rodents recovered after fumigation.....	11
Total.....	344
Rodents examined for plague infection.....	276
Rodents proven plague infected.....	None.
Poison distributed, pounds.....	13
Bodies examined for plague infection.....	7
Bodies found plague infected.....	None.

## CLASSIFICATION OF RODENTS.

Mus rattus.....	5
Mus alexandrinus.....	55
Mus norvegicus.....	236
Mus musculus.....	36
Nonclassified.....	11

The usual day and night patrol was maintained to enforce rat guarding and fending.

#### MISCELLANEOUS WORK.

Visits to other cities in the interests of sanitary work.....	1
Lectures delivered on sanitary subjects.....	1
Meetings held to discuss sanitary measures..	1
Rat-proofing notices sent to contractors.....	24
Communications sent regarding rat work.....	15

#### RODENTS EXAMINED IN EVERETT.

Mus norvegicus trapped.....	40
Mus alexandrinus trapped.....	1
Mus musculus trapped.....	3
Total.....	44
Rodents examined for plague infection.....	44
Rodents proven plague infected.....	None.

WEEK ENDED MAR. 13, 1915.

#### RAT PROOFING.

New buildings inspected.....	28
Basements concreted, new buildings (11,475 square feet).....	6
Floors concreted, new buildings (53,780 square feet).....	14
Yards, etc., concreted, new buildings (1,875 square feet).....	3
Sidewalks concreted (square feet).....	16,790
Total concrete laid, new structures (square feet).....	86,920
New buildings elevated.....	4
Premises rat proofed, concrete.....	20
Old buildings inspected.....	47
Buildings razed.....	3

#### LABORATORY AND RODENT OPERATIONS—contd.

Rodents examined for plague infection.....	288
Rodents proven plague infected.....	0
Poison distributed, pounds.....	16
Bodies examined for plague infection.....	1
Bodies found plague infected.....	0

#### CLASSIFICATION OF RODENTS.

Mus rattus.....	5
Mus alexandrinus.....	85
Mus norvegicus.....	213
Mus musculus.....	47

The usual day and night patrol was maintained to enforce rat guarding and fending.

#### MISCELLANEOUS WORK.

Lectures delivered on sanitary subjects.....	2
Rat-proofing notices sent to contractors.....	19
Fishing vessels inspected and medicine chests installed.....	10
Letters sent regarding sanitary work.....	112

#### RODENTS EXAMINED IN EVERETT.

Mus norvegicus trapped.....	42
Mus norvegicus found dead.....	1
Mus alexandrinus trapped.....	2
Mus musculus trapped.....	2
Total.....	47
Rodents examined for plague infection.....	47
Rodents found plague-infected.....	0

#### WATER FRONT.

Vessels inspected and histories recorded.....	11
Vessels fumigated.....	3
Sulphur used, pounds.....	1,575
New rat guards installed.....	14
Defective rat guards repaired.....	6
Fumigation certificates issued.....	3
Canal Zone certificates issued.....	3
Port sanitary statements issued.....	36

#### LABORATORY AND RODENT OPERATIONS.

Dead rats received.....	30
Rodents trapped and killed.....	293
Rodents recovered after fumigation.....	30
Total.....	353

WEEK ENDED MAR. 20, 1915.

#### RAT PROOFING.

New buildings inspected.....	26
Basements concreted, new buildings (14,760 square feet).....	9
Yards, etc., concreted, new buildings (2,780 square feet).....	5
Floors concreted, new buildings (67,840 square feet).....	19
Sidewalks concreted (square feet).....	27,490
Total concrete laid, new structures (square feet).....	112,870
New buildings elevated.....	5
New premises rat proofed, concrete.....	22
Old buildings inspected.....	6
Premises rat proofed other than concrete, old buildings.....	5
Openings screened, old buildings.....	47
Rat holes cemented, old buildings.....	106
Doors rat proofed, old buildings.....	3
Wire screen used (square feet).....	947
Buildings razed.....	4

#### LABORATORY AND RODENT OPERATIONS.

Dead rodents received.....	28
Rodents trapped and killed.....	330
Rodents recovered after fumigation.....	2
Rodents examined for plague infection.....	294
Rodents proven plague infected.....	0
Poison distributed, pounds.....	17
Bodies examined for plague infection.....	6
Bodies found plague-infected.....	0

#### CLASSIFICATION OF RODENTS.

Mus rattus.....	12
Mus alexandrinus.....	40
Mus norvegicus.....	262
Mus musculus.....	45
Unclassified.....	1

#### WATER FRONT.

Vessels inspected and histories recorded.....	12
Vessels fumigated.....	1
Sulphur used, pounds.....	475

## WATER FRONT—continued.

New rat guards installed.....	19
Defective rat guards repaired.....	8
Fumigation certificates issued.....	2
Canal Zone certificates issued.....	2
Port sanitary statements issued.....	42

## MISCELLANEOUS WORK.

Lectures delivered on sanitary subjects.....	2
Rat-proofing notices sent to contractors.....	24
Fishing vessels inspected and medicine chests installed.....	8

WEEK ENDED MAR. 27, 1915.

## RAT PROOFING.

New buildings inspected.....	37
Basements concreted, new buildings (11,280 square feet).....	8
Floors concreted, new buildings (65,970 square feet).....	16
Yards, etc., concreted, new buildings (1,450 square feet).....	3
Sidewalks concreted, (square feet).....	32,450
Total concrete laid, new structures (square feet).....	111,150
New buildings elevated.....	4
New premises rat proofed, concrete.....	24
Old buildings inspected.....	3
Premises rat proofed other than concrete, old buildings.....	3
Openings screened, old buildings.....	16
Rat holes cemented, old buildings.....	57
Wooden floors removed, old buildings.....	2
Wire screen used (square feet).....	760
Buildings razed.....	2

## LABORATORY AND RODENT OPERATIONS.

Dead rodents received.....	16
Rodents trapped and killed.....	487
Total.....	503
Rodents examined for plague infection.....	370
Rodents proven plague infected.....	0
Poison distributed, pounds.....	24
Bodies examined for plague infection.....	4
Bodies found plague infected.....	0

## MISCELLANEOUS WORK—continued.

Meetings held to discuss plague-suppressive measures.....	1
The usual day and night patrol was maintained to enforce rat guarding and fending.	

## RODENTS EXAMINED IN EVERETT.

Mus alexandrinus trapped.....	3
Mus norvegicus trapped.....	24
Mus norvegicus found dead.....	5
Total.....	32
Rodents examined for plague infection.....	32
Rodents proven plague infected.....	0

## CLASSIFICATION OF RODENTS.

Mus rattus.....	30
Mus alexandrinus.....	88
Mus norvegicus.....	278
Mus musculus.....	107
Total.....	503

## WATER FRONT.

Vessels inspected and histories recorded.....	8
Vessels fumigated.....	2
Sulphur used, pounds.....	350
New rat guards installed.....	9
Defective rat guards repaired.....	6
Fumigation certificates issued.....	2
Port sanitary statements issued.....	36

## MISCELLANEOUS WORK.

Lectures delivered on sanitation.....	2
Rat-proofing notices sent to contractors.....	19
Boxes of plants examined for evidence of rats (no evidence found).....	39
Fishing vessels inspected and medicine chests installed.....	13
The usual day and night patrol was maintained to enforce rat guarding and fending.	

## RODENTS EXAMINED IN EVERETT.

Mus norvegicus trapped.....	36
Mus norvegicus found dead.....	7
Mus musculus trapped.....	1
Total.....	44
Rodents examined for plague infection.....	39
Rodents found plague infected.....	0

## HAWAII—PLAGUE-PREVENTION WORK.

The following reports of plague-prevention work in Hawaii have been received from Surg. Trotter, of the United States Public Health Service:

## Honolulu.

WEEK ENDED MAR. 13, 1915.

Total rats and mongoose taken.....	455
Rats trapped.....	444
Mongoose trapped.....	11
Examined microscopically.....	367
Showing plague infection.....	0
Classification of rats trapped:	
Mus alexandrinus.....	222

## Classification of rats trapped—Continued.

Mus musculus.....	142
Mus norvegicus.....	52
Mus rattus.....	30
Average number of traps set daily.....	1,065
Cost per rat destroyed.....	18¢ cents

**Honolulu.**

WEEK ENDED MAR. 20, 1915.

Total rats and mongoose taken.....	483	Average number of traps set daily.....	1,085
Rats trapped.....	471	Cost per rat destroyed.....	17½ cents.
Mongoose trapped.....	11	Last case rat plague, Aiea, 9 miles from Honolulu,	
Rats found dead ( <i>Mus musculus</i> ).....	1	Apr. 12, 1910.	
Examined microscopically.....	384	Last case human plague, Honolulu, July 12, 1910.	
Showing plague infection.....	0	Last case rat plague Kalopa stable, Paauhau,	
Classification of rats trapped:		Hawaii, Aug. 29, 1914.	
<i>Mus alexandrinus</i> .....	209	Last case human plague, Paauhau Landing, Ha-	
<i>Mus musculus</i> .....	153	waii, Aug. 17, 1914.	
<i>Mus norvegicus</i> .....	59		
<i>Mus rattus</i> .....	50		

**Hilo.**

WEEK ENDED MAR. 13, 1915.

Number of rats and mongoose taken.....	2,885	Classification of rats trapped and found dead:	
Rats trapped.....	2,850	<i>Mus norvegicus</i> .....	587
Rats found dead.....	1	<i>Mus alexandrinus</i> .....	473
Mongoose taken.....	34	<i>Mus rattus</i> .....	995
Rats and mongoose examined macroscop-		<i>Mus musculus</i> .....	796
ically.....	2,885	Last case of rat plague, Paauhau Sugar Co., Aug. 29,	
Rats and mongoose examined microscop-		1914.	
ically.....	1	Last case of human plague, Paauhau Sugar Co.,	
Rats and mongoose plague infected.....	0	Aug. 16, 1914.	